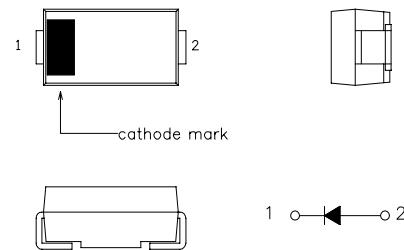


DIODE Type : EC10DS1

FEATURES

- * Miniature Size, Surface Mount Device
- * High Surge Capability
- * Low Forward Voltage Drop
- * Low Reverse Leakage Current
- * Packaged in 12mm Tape and Reel
- * Not Rolling During Assembly

OUTLINE DRAWING



Maximum Ratings

Approx Net Weight: 0.06g

Rating	Symbol	EC10DS1			Unit	
Repetitive Peak Reverse Voltage	V _{RRM}	100			V	
Non-repetitive Peak Reverse Voltage	V _{RSM}	250			V	
Average Rectified Output Current	I _O	0.74	T _a =25 °C *1	50Hz Half Sine Wave Resistive Load	A	
		1.0	T _a =25 °C *2			
RMS Forward Current	I _{F(RMS)}	1.57			A	
Surge Forward Current	I _{FSM}	25	50Hz Half Sine Wave, 1cycle Non-repetitive			
Operating Junction Temperature Range	T _{jw}	-40 to +150			°C	
Storage Temperature Range	T _{stg}	-40 to +150			°C	

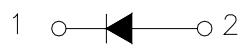
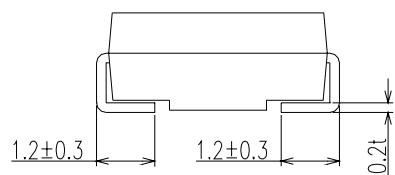
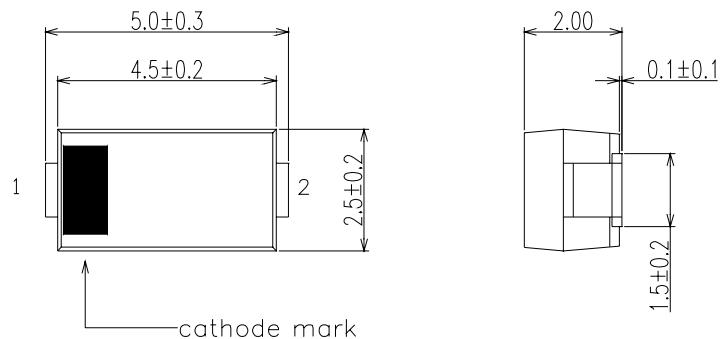
Electrical • Thermal Characteristics

Characteristics	Symbol	Conditions	Min.	Typ.	Max.	Unit
Peak Reverse Current	I _{RM}	T _j = 25°C, V _{RM} = V _{RRM}	-	-	10	μA
Peak Forward Voltage	V _{FM}	T _j = 25°C, I _{FM} = 1.0A	-	-	1.1	V
Thermal Resistance	R _{th(j-a)}	Junction to Ambient	*1	-	157	°C/W
			*2	-	108	

*1 Glass Epoxy Substrate Mounted (Soldering Lands=2x2mm, Both Sides)

*2 Alumina Substrate Mounted (Soldering Lands=2x2mm, Both Sides)

EC10DS1 OUTLINE DRAWING (Dimensions in mm)



SOLDERING PAD

